

Limited Effectiveness of Repeated Delivery of IL18 Adenoviral Vector

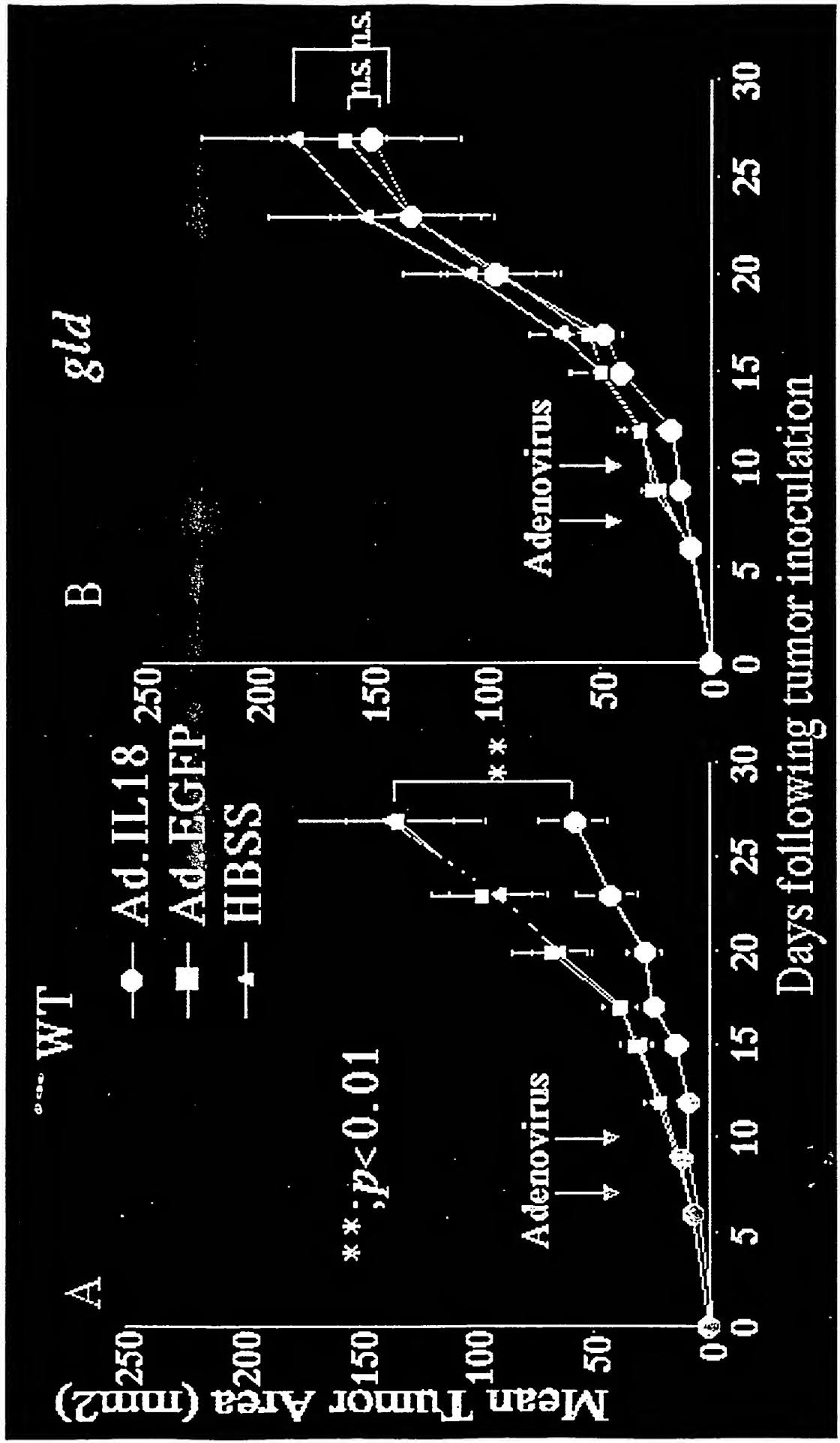


Figure 1A and 1B

FasL Dependent Induction of Cytotoxicity

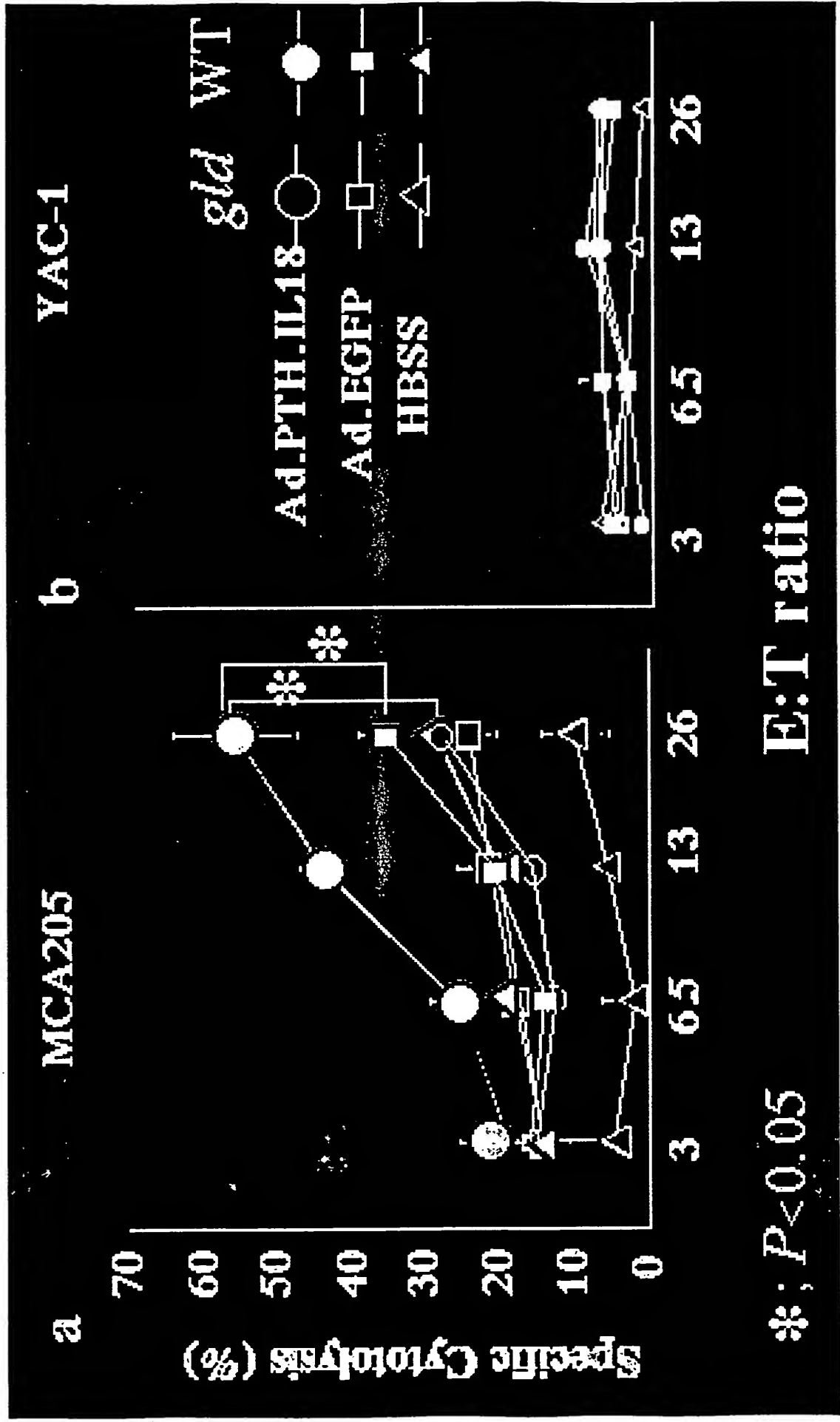


Figure 1c

DC Combination with Adenoviral Delivery of IL18 Mediates Profound Antitumor Activity in MCA 205

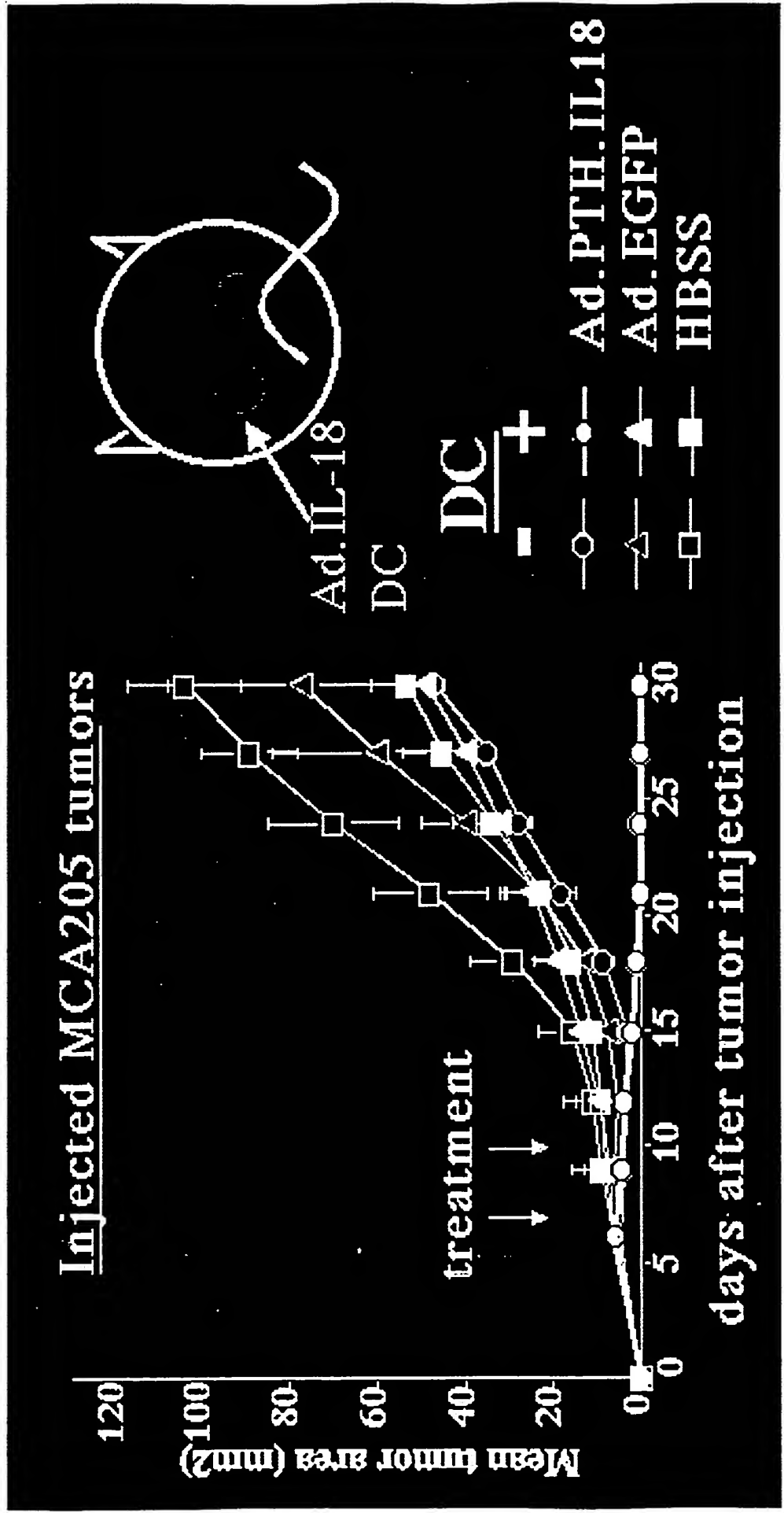
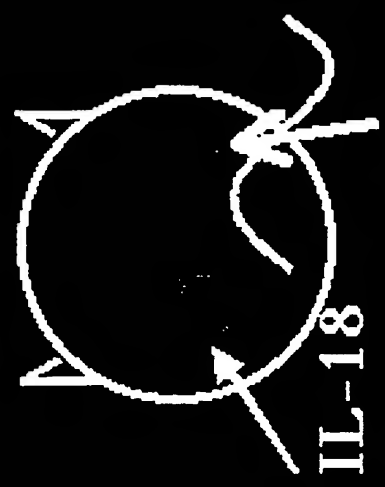
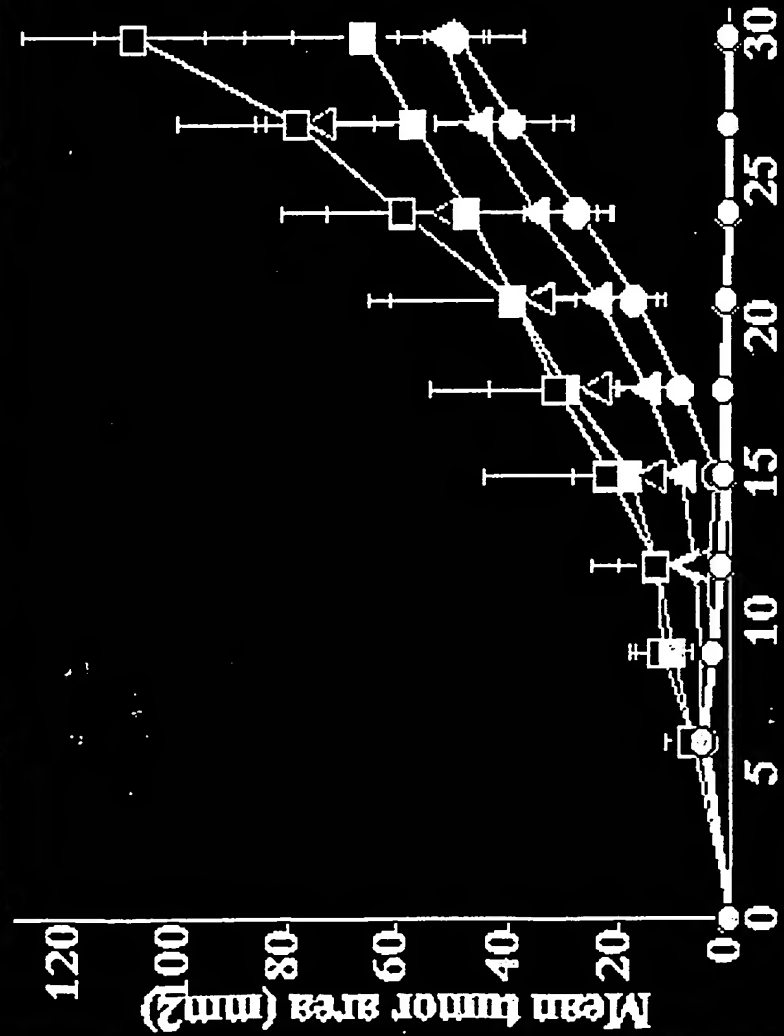
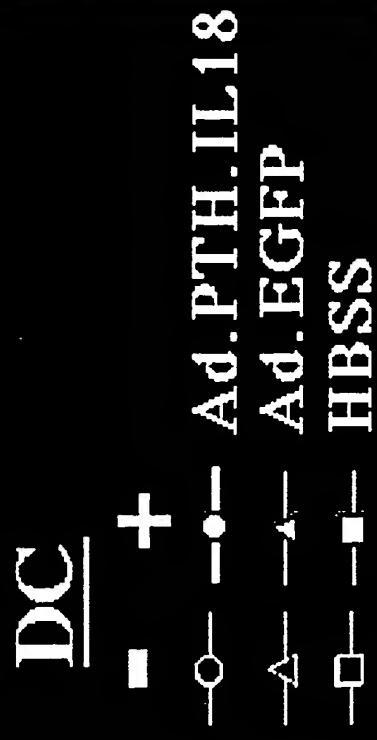


Figure 2A

Interleukin 18 Mediates Distant Antitumor Effects When Coupled with DC

Un-injected MCA205 tumors



days after tumor injection
 Similar findings with MCA205 Colorectal Adenocarcinoma

Figure 2B

Development of Systemic Immunity with IL18 and Dendritic Cell Coadministration

Effector: Lymph Node Cells Splenocytes

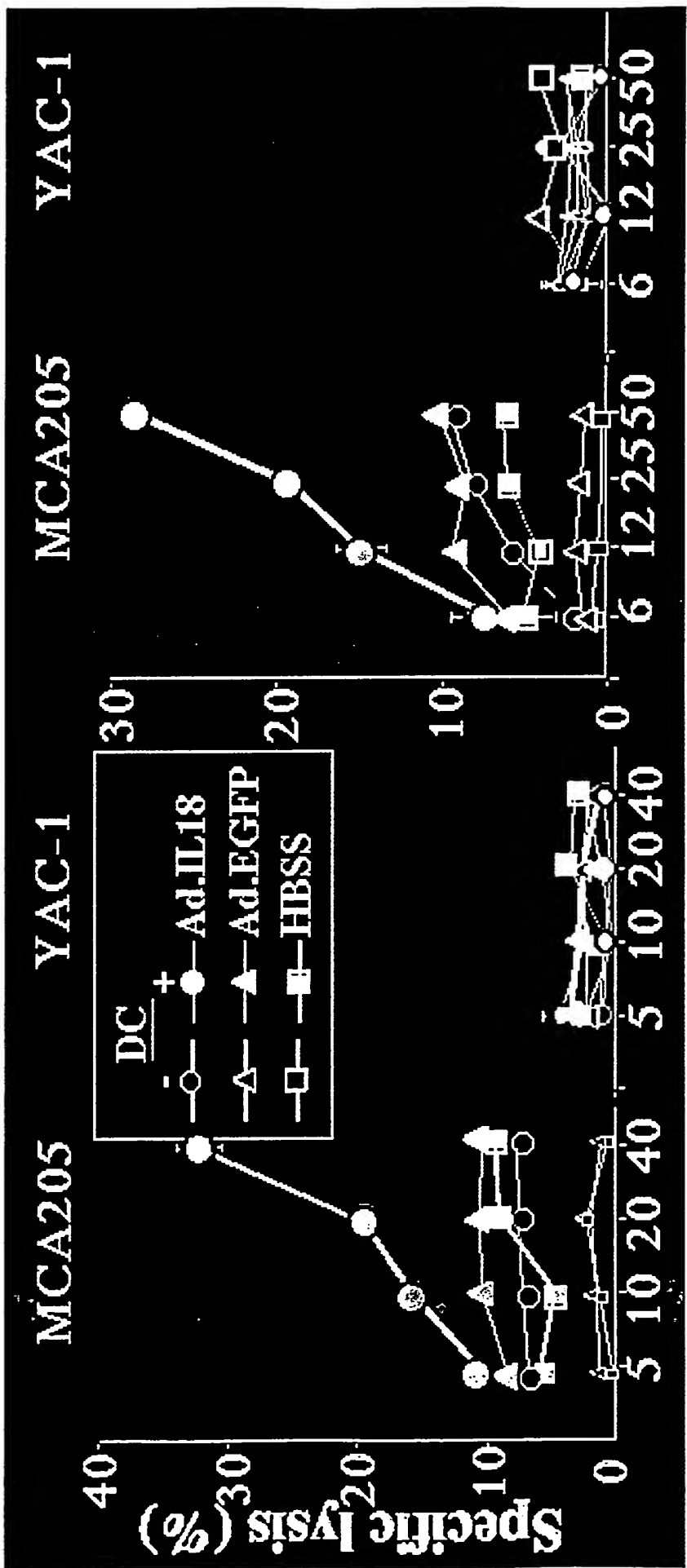


Figure 2C

Fine Specificity of the Antitumor Cytolytic Response Mediated by IL18 and DCs

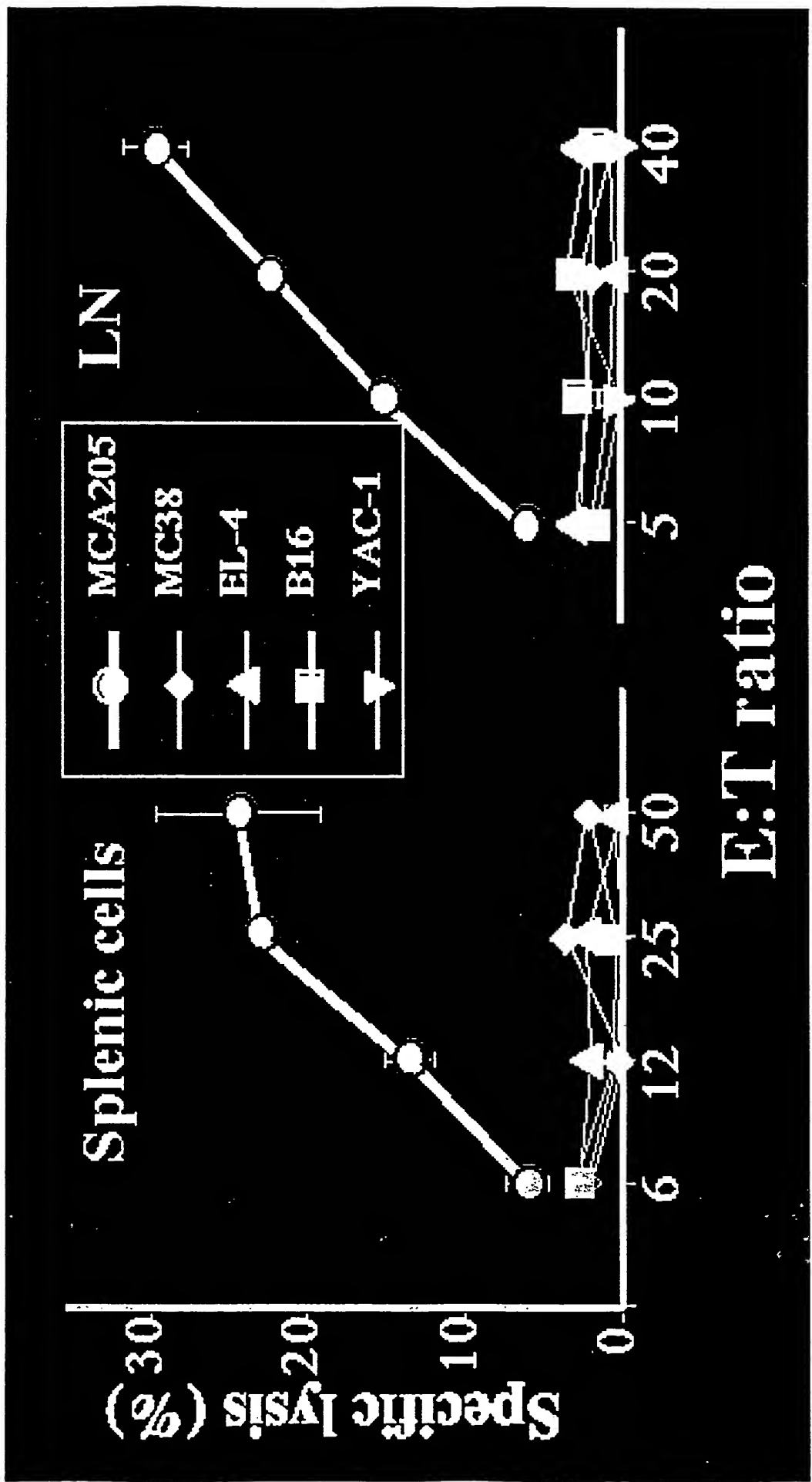


Figure 3A

Cytolytic Activity Mediated by DC and IL18 Injection is MHC Class I [K^b] Restricted

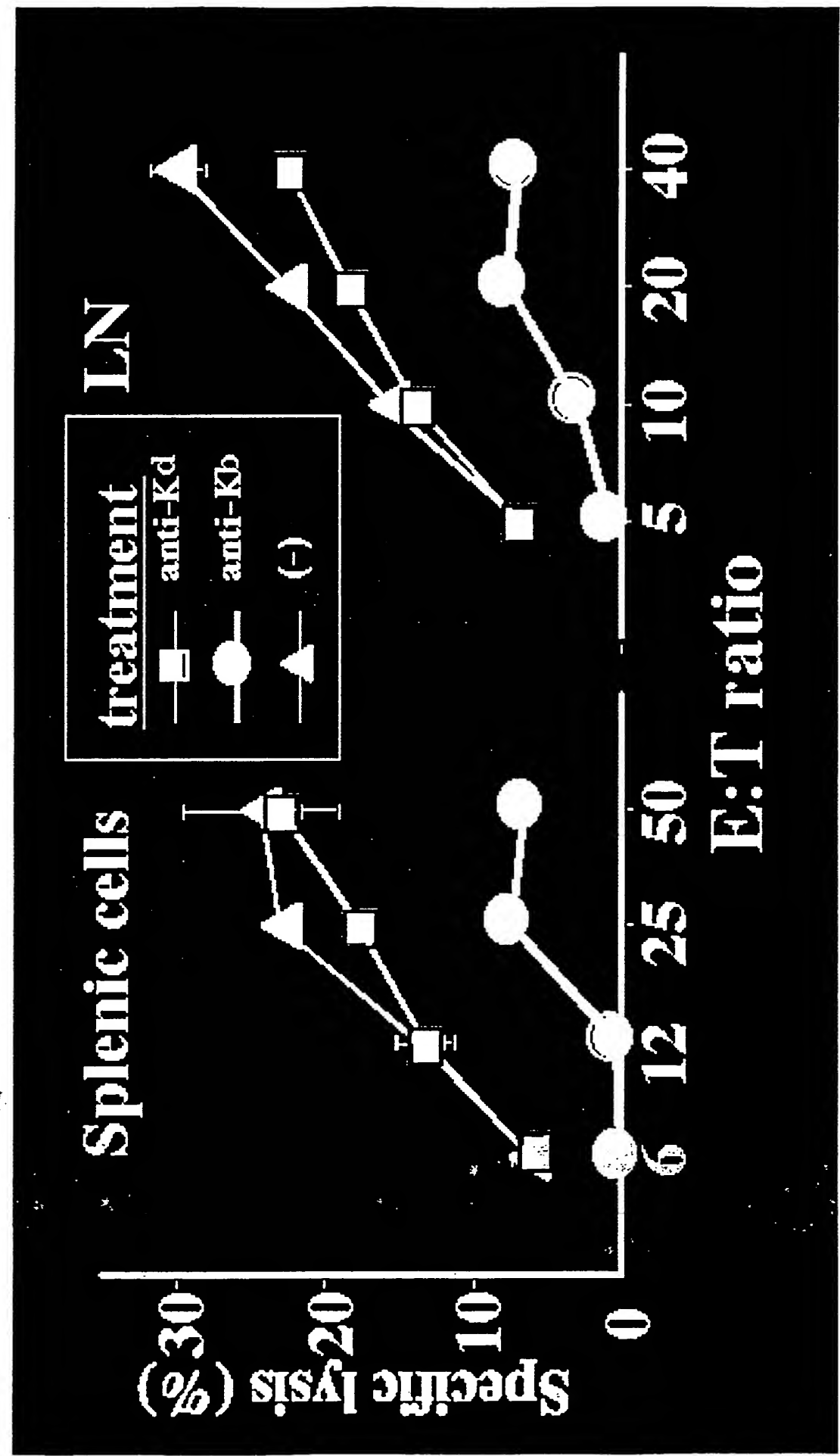


Figure 3B

DCs Require IL12 Production to Mediate Antitumor Effects with IL18

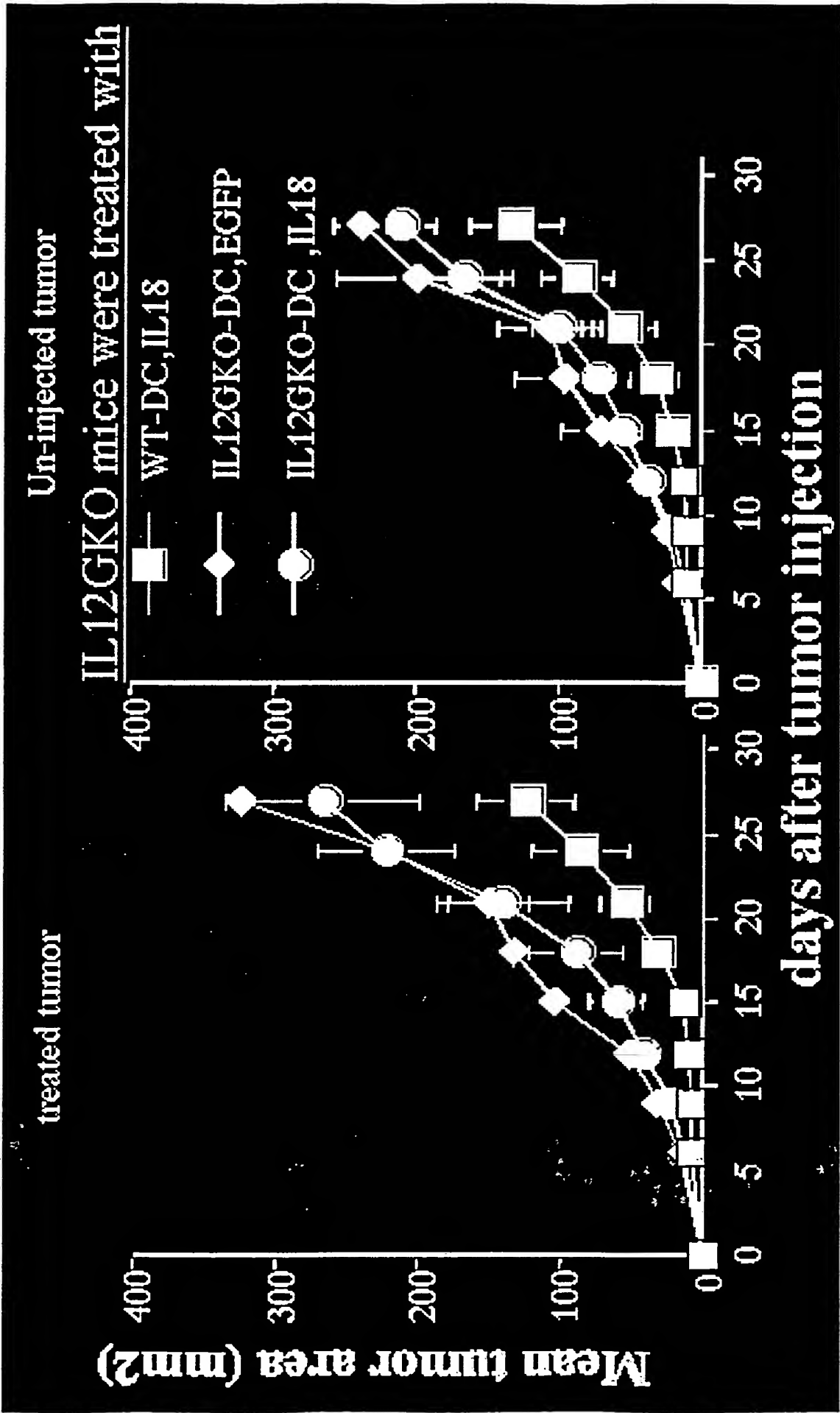


Figure 4

Nomenclature of novel IL-1 homologues.

Human Gene	Mouse Gene	Protein	Accession Number	old names/Accession (Reference)	Variant/Accession (Reference)
<i>IL1F5^a</i>	<i>Il1f5</i>	IL-1F5	AF186094	IL-1Hy1 / AF186094 (Mulero et al., 1999), FIL1δ / AF201830 (Smith et al., 2000), IL-1H3 / AF200493 (Kumar et al., 2000), IL-1RP3 (Busfield et al., 2000), IL-1L1 AJ242737-38 (Barton et al., 2000), IL-1δ / AF230377 (Debets et al., 2001)	IL-1F5b / AJ242738 (Barton et al., 2000)
<i>IL1F6</i>	<i>Il1f6</i>	IL-1F6	AF201831	FIL1ε / AF201831 (Smith et al., 2000)	
<i>IL1F7</i>	<i>Il1f7^b</i>	IL-1F7	AF201832	FIL1ζ / AF201832 (Smith et al., 2000), IL-1 H4 (Kumar et al., 2000), IL-1RP1 (Busfield et al., 2000), IL-1H AF251118-20 (Pan et al., 2001)	IL-1F7b / AF200496 (Kumar et al., 2000)
					IL-1F7c / AF251120 (Pan et al., 2001)
<i>IL1F8</i>	<i>Il1f8^b</i>	IL-1F8	AF201833	FIL1η / AF201833 (Smith et al., 2000), IL-1H2 / AF200494 (Kumar et al., 2000)	IL-1F8b / AF200494 (Kumar et al., 2000)
<i>IL1F9</i>	<i>Il1f9</i>	IL-1F9	AF200492	IL-1 H1 (Kumar et al., 2000), IL-1RP2 (Busfield et al., 2000), IL-1ε / AF206696 (Debets et al., 2001)	
<i>IL1F10</i>	<i>Il1f10^b</i>	IL-1F10	AF334755	IL-1Hy2 (Lin et al., 2001), FKSG75 (unpublished)	IL-1F10b AY026753 (unpublished)

^aIn this nomenclature IL-1F1, IL-1F2, IL-1F3, and IL-1F4 are reserved for IL-1α, IL-1β, IL-1ra and IL-18, respectively.

^bA corresponding murine orthologue is yet to be identified.

Figure 5

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IL1a  S-----APPSFLSNVKY-----NFMRIIKYEFILNDALNQSIIRAND--Y-T 153
IL1b  APV-----RSLNCTLRDSQOKSLVMGSP-----Y-----ELRALPHLOGQD--M-- 152
IL1ra RPSGRKSS-----RMOAERFWQVNTTFYERNND--EVE 39
IL18  -----FGKLESLSVIRNLDOVLFIDQENRPFE 67
IL1F5  VLSG-----ALCERMKPSALVLYLPHNNQ--LTA 28
IL1F6  -----TPQOGSPDISHRHWVLQDOT--LTA 32
IL1F7  SFVGENSGVKMGSEDEKDEPQCLEDPAQSPLEPGPSLPTMNFVHTSPKVKNLNPKKESIDHDQDHKVLVLDSEN--LTA 79
IL1F8  N-----P-----QREA--APSYAHRDSROMHWVLSNS--LTA 31
IL1F9  R-----GTPGDADGGGRAV-YQSMC-----KAITGTINDLNGOWMTLOGON--LTA 44
IL1F10 C---SLP-----MARYYLTKYDOPRALYTRDSC--LTV 29

IL1a  AA-ALHSLDEAVKFDMCQYK--SSKDDAKITVIRISKTQFYVT---AQDEDOFVLKEMPEIPKTTITSETN---LTF 223
IL1b  -----EQOVVFMSMFVOGEESNDKIEVAGLKEKNYPSCVLK--DEKPTLOLESVDPKN-IPKMKMEKFEVFE 217
IL1ra GYLQGPNNVNLSEKDDVP---IBPH-----ALFEGIHGCKMCLSCVY--SEDETRELQLEAVNITDISENRKQDKNE--LTA 107
IL18  DMTDSDCRDNAPRTIFHISMKDSQPRGMVAVTSVKCEKIST-LSCENK-----IISFKEMPPC---NIKDTSSDII 137
IL1F5  GGLHSGKVIIGCEHSVVPNRWLDASLS---EVLGGVGGGSOGLSCG---VGQEPHTITLBPVNIHMLYLAKESRS--LTF 100
IL1F6  --VPRKDRMSVVIPLLSCHVETLCKDRNEVYGLNLNCLMCAH--VGDOPTLOLKEKDMIDLYNOPBPV--SFE 107
IL1F7  --VEDKSYRDEPIFFALSSLS--SAEKQSP--LGVSKSEFELYCDSDKQGSHEP--OLKKEKLMLAAOKESR--LTF 156
IL1F8  --APLRSRHKFVHLHLACRDTFSDKEKNMVYLGIRKDKLFCAE--IOGKPTLOLKEKIMDLYVERKAON--PFE 106
IL1F9  --VPRSDSVTFVIVAVITCKVPEALBQGRSDFTYLGICNPENCLYCEH--VGQEPHTLOLKEKIMDLYGQPEPV--PFE 119
IL1F10 GDPVADNCC-ABKHCTLPNRGLDRTKV---PFLGIQGGSRCLACVE--TEEGPSLOLEDVNIIEELYKSGEET--LTF 101

IL1a  SWETH--STKNYITVEHENLEIAT--KQBY-WYCLAGGE-----PSITDFOILEN-----QA 271
IL1b  NKIEI--NNKLEFESAQENNYISTQAENM-PVFLGGTKGGDITDFTMOE-----VSS 269
IL1ra IRSDS--GPTTFESAAQGWFLCNAMEADQ-PVSLNNMDEG--VMVTKYFQED-----E 159
IL18  QRQSVPGHDKMQFESSSYEGYFLACEKEDLFKLKKEDELGDRSIM--FIVONE-----D 193
IL1F5  YSRDM--SLSSSESAAVFCWFLCVPEADQ-PVRLTQLENGGWN--PITDFYEQC-----D 155
IL1F6  YHSQS--GRNSTESMAFPGWFIAMVSEGGC-PLLTQBLE-----KANTTDGGL-----THLF 158
IL1F7  YRAQV--GSWNMLESAHPGWFIQTSNCNE-PVGVVDKFE--NRKHIESFCPVCKAEMSPSEVSD 218
IL1F8  PHNKE--GSTSVFOSVSYFGWFIATSTTSGQ-PIFLTKEKE--ITNNNSYL-----DSVE 157
IL1F9  YRAKT--GRSTLESVAFEDWFIASSRDO--PILLSELS--KSYNTAFEL-----NIND 169
IL1F10 POGSS--GSAFRLSAAPGWFLCGPAPPOG-PVOLTKESEPSAR--TKSYTEQS-----W 152

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Figure 6